Project Descriptions for November 1, 2017

Board of Trustees Meeting

Clean Water Commitments

Grafton CW-17-10

The Town relies on both the Arcadia Street and Worcester Street pumping stations to convey wastewater from the majority of the sewered portion of the Town to the Grafton Wastewater Treatment Plant (WWTP). The stations are currently in severe disrepair. The Arcadia Street Pumping Station experiences overflows as a result of failed equipment and alarms. The Worcester Street Pumping Station experiences severe flooding and has equipment below the flood level. The stations are in need of a major renovation to replace equipment and systems that have functioned well beyond their expected life. This work will improve efficiency and ensure adequate wastewater treatment and system capacity.

New Bedford CW-17-09

The purpose of this project is to provide the groundwork for meeting the requirements of the upcoming 2017 Massachusetts MS4 Permit. An initial planning stage will identify gaps in existing information and lay out a feasible schedule and budget for meeting permit milestones. The majority of planning documents required by the permit, including but not limited to, Illicit Discharge Detection and Elimination (IDDE) procedures, educational materials, SOPs, ordinances, research documents, O&M procedures, will be developed and used to implement permit objectives. Field mapping of the stormwater system using GPS units will be performed and used as the basis for preparation of the planning documents

New Bedford CW-17-10

The City of New Bedford's collection system is over 100 years old. Many of its critical components are showing signs of their age. This project will develop the required planning documents and complete field investigations necessary to begin implementing future system rehabilitation efforts, address regulatory requirement needs, eliminate illicit connection, and reduce CSOs

Drinking Water Commitments

Fall River DW-17-08

The Phase 17 water main improvements include the rehabilitation or replacement of approximately 16,100 linear feet of cast iron water mains and 30 lead services. A priority of the SRF program is prevention of a potential serious health threats to a major system component. The cast iron mains are severely detreated and need to be replaces to ensure adequate flow and capacity for supply and fire protection. Replacement of lead service connection addressed the critical health threats presented by lead in drinking water. The adverse health effects of lead exposure in children and adults are well documented, and no safe blood level threshold in children has been established. Leas exposure causes neurological and cognitive impairments in

children and fetuses and can cause high blood pressure and kidney problems in adults. This project will prevent a serious problem in the distribution system and will provide safe and reliable drinking water to customers of the city of Fall River.

Webster DWP-17-04
This project includes the construction of a water treatment plant (WTP) and associated appurtenances. The Memorial Beach Wells WTP project corrects serious existing problems within the Webster water supply. This project returns compromised drinking water sources to operation, and mitigates potential long term public health threats by reducing elevated levels of manganese, and ensuring corrosion control at the new entry point into the distribution system. In addition, this project will address elevated levels of iron above the Secondary Maximum Contaminant Limit (SMCL), provide 4-log disinfection, and provide additional system redundancy to ensure availability and flow capacity. The Memorial Beach Wells WTP project addresses significant problems within the Webster water system.

Clean Water Agreements

Dartmouth CWP-16-32
This project consists of providing treatment upgrades to the existing Water Pollution Control Facility. The scope includes upgrading the existing low pressure, low intensity ultraviolet (UV) disinfection system to a low pressure, high intensity UV system to improve bacterial kill. Upgrading the existing UV system will allow the facility to meet current NPDES permit requirements. In addition, it will improve and consistently provide a high quality effluent to Buzzards Bay.

Norwood CWP-15-08-A
The objective of this project is to perform comprehensive sewer rehabilitation in portions of the Underdrain area in Norwood to eliminate exfiltration of sanitary sewage into the adjacent stormwater system that ultimately discharges to Meadowbrook (a tributary of the Neponset River) and the Neponset River. Work will be performed in the Underdrain area in accordance with the Town's Underdrain Control Plan as revised July 25, 2014.